



Give us a few clicks,
we'll give you the perfect polymer.



ChemFinder.Com
Database & Internet Searching

ChemStore.Com

ChemFinder.Com

ChemNews.Com

ChemClub.Com

CambridgeSoft.Com

CALL
ME
NOW

Enter a Chemical Name, CAS Number, Molecular Formula or Weight.

Use * for partial names (e.g. ben*).

Search here for free. For professional searching, use ChemINDEX.

Search

Aluminum oxide [1344-28-1]

Synonyms: alpha-Alumina; alpha-Alumina trihydrate; Activated Alumina; Aloxite; Alumina; Alumina acidic; Alumina basic; Alumina neutral; Aluminite 37; Aluminum oxide; Aluminum Oxide, Acidic; Aluminum Oxide, Activated; Aluminum Oxide, Basic; Aluminum oxide (fibrous forms); Alundum; Basic alumina; Boileezers; Corundum; Delta alumina; sapphire; sigma-alumina; Theta alumina; gamma-Alumina;

	Tools	OpenChem
	BUY AT CHEMACX.COM	VIEW LINKS
	VIEW CHEMDRAW STRUCT	ADD COMPOUND
	VIEW CHEM3D MODEL	ADD/CHANGE PROPERTY
	ADD LINK	
CAS RN Lookup		
THE MERCK INDEX		
NCI DATABASE		

Formula	Al ₂ O ₃	Molecular Weight	101.96128
CAS RN	1344-28-1	Melting Point (°C)	2030
ACX Number	X1000214-5	Boiling Point (°C)	2977
Density	3.97	Vapor Density	
Refractive Index		Vapor Pressure	
Evaporation Rate		Water Solubility	Insoluble
Flash Point (°C)		EPA Code	
DOT Number		RTECS	BD1200000
Comments	White powder or solid		

More information about the chemical is available in these categories:



MATERIAL PROPERTY DATA

Unregistered User

REGISTER
NOW

Data on over 28,500 metals, plastics, ceramics, and composites.

HOME • SEARCH • TOOLS • SERVICES • HELP • SITE MAP • LOGIN

Searches: Sequential | Material Type | Property | Composition | Trade Name | Manufacturer

SEARCH

Zirconia, ZrO₂

Printer friendly version

Subcategory: Ceramic; Oxide, Zirconium

Key Words: Zirconium Oxide

MarkeTech International, Inc. provides a range of advanced engineered materials including alumina, zirconia, sapphire, and other ceramics; sintered tungsten, aerogels, electrochemical materials, carbon, and single crystal wafers. Engineering design and technical support available. Phone MarkeTech toll free at 877 452 4910. www.mkt-intl.com.

Physical Properties

	Metric	English	Comments
Density	5.68 g/cc	0.205 lb/in ³	monoclinic
Density	6.1 g/cc	0.22 lb/in ³	tetragonal

Thermal Properties

CTE, linear 20°C	7 µm/m-°C	3.89 µin/in-°F	monoclinic
CTE, linear 20°C	12 µm/m-°C	6.67 µin/in-°F	tetragonal
Thermal Conductivity	1.675 W/m-K	11.6 BTU-in/hr-ft ² -°F	m
Melting Point	2681 - 2847 °C	4860 - 5160 °F	

Printer friendly version

References for this datasheet.

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to Matweb's disclaimer and terms of use regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into Matweb.



Subscribe to Premium Services

<http://www.matweb.com/search/SpecificMaterial.asp?bassnum=BOZrA>

8/23/2002

ChemFinder.Com
Database & Internet Searching

Hotwire's FALL FARE SALE!

ChemStore.Com ChemFinder.Com
ChemNews.Com ChemClub.Com
CambridgeSoft.Com

Hotwire

CALL ME NOW

Enter a Chemical Name, CAS Number, Molecular Formula or Weight.
Use * for partial names (e.g. ben*).
Search here for free. For professional searching, use ChemINDEX.

Search

Ferric oxide [1309-37-1]

Synonyms: diiron trioxide; C.I. 77491; English iron oxide red; Iron (III) oxide; Ferric oxide; Iron(III) oxide dihydrate; FERRIC OXIDE, 99.99%; FERRIC OXIDE FUME; Ferric oxide red; Iron oxide; Iron oxide (Fe₂O₃); Iron oxide red; Pigment red 101; Red iron oxide; Rouge;

62*	Tools	OpenChem
	BUY AT CHEMACX.COM	VIEW LINKS
	VIEW CHEMDRAW STRUCT	ADD COMPOUND
	VIEW CHEM3D MODEL	ADD/CHANGE PROPERTY
	CAS RN Lookup	ADD LINK
	THE MERCK INDEX	
	NCI DATABASE	

Formula	Fe ₂ O ₃	Molecular Weight	159.6882
CAS RN	1309-37-1	Melting Point (°C)	1538
ACX Number	X1002529-9	Boiling Point (°C)	
Density	5.24	Vapor Density	
Refractive Index		Vapor Pressure	
Evaporation Rate		Water Solubility	insoluble
Flash Point (°C)		EPA Code	
DOT Number	UN 1376	RTECS	NO7400000
Comments	Red-brown fume with a metallic taste		

More information about the chemical is available in these categories:

<http://chemfinder.cambridgesoft.com/result.asp?molid=1309-37-1>

8/23/2002


1-800-488-CARS
ChemFinder.Com
 Database & Internet Searching

[ChemStore.Com](#)
[ChemFinder.Com](#)
[ChemNews.Com](#)
[ChemClub.Com](#)
[CambridgeSoft.Com](#)
**CALL
ME
NOW**

Enter a Chemical Name, CAS Number, Molecular Formula or Weight.

Use * for partial names (e.g. ben*).

 Search here for free. For professional searching, use [ChemINDEX](#).

Search

Lead oxide [1317-36-8]

Synonyms: C.I. 77577; Lead (II) oxide; Lead(II)oxide, yellow; plumbous oxide; Lead monoxide; Lead ocher; Lead oxide; LEAD OXIDE, 99.99%; Lead oxide(mono); Lead oxide (PbO); Lead oxide yellow; Lead protoxide; Litharge; Litharge yellow L-28; Massicot; Massicotite; Pigment yellow 46; Yellow lead ocher;

No Structure Available	Tools	OpenChem
	BUY AT CHEMACX.COM	VIEW LINKS
	VIEW CHEMDRAW STRUCT	ADD COMPOUND
	VIEW CHEM3D MODEL	ADD/CHANGE PROPERTY
		ADD LINK
	CAS RN Lookup	
	THE MERCK INDEX	
	NCI DATABASE	

Formula	OPb	Molecular Weight	223.1994
CAS RN	1317-36-8	Melting Point (°C)	888
ACX Number	X1000234-7	Boiling Point (°C)	1470
Density	9.53	Vapor Density	
Refractive Index		Vapor Pressure	
Evaporation Rate		Water Solubility	
Flash Point (°C)		EPA Code	
DOT Number	UN 1479	RTECS	OG1750000
Comments			

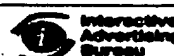
More information about the chemical is available in these categories:

[Chemical Online Order](#)
[Health](#)
[Misc](#)
[MSDS](#)



ChemFinder.Com
Database & Internet Searching

INTERACTIVE It's the active ingredient.



click here to
learn more

ChemStore.Com

ChemFinder.Com

ChemNews.Com

ChemClub.Com

CambridgeSoft.Com

**CALL
ME
NOW**

Enter a Chemical Name, CAS Number, Molecular Formula or Weight.

Use * for partial names (e.g. ben*).

Search here for free. For professional searching, use [ChemINDEX](#).

Search

Lead(II,IV) oxide [1314-41-6]

Synonyms: Lead (II,III) oxide; Lead(II,IV) oxide; Lead oxide; Lead Tetraoxide; Lead tetroxide; Mineral red; orange lead; Red lead oxide;

	Tools	OpenChem
	BUY AT CHEMACX.COM	VIEW LINKS
	VIEW CHEMDRAW STRUCT	ADD COMPOUND
	VIEW CHEM3D MODEL	ADD/CHANGE PROPERTY
	CAS RN Lookup	ADD LINK
	THE MERCK INDEX	
	NCI DATABASE	

Formula O_4Pb_3

Molecular Weight 685.5976

CAS RN 1314-41-6

Melting Point (°C) 500

ACX Number X1000235-4

Boiling Point (°C)

Density

Vapor Density

Refractive Index

Vapor Pressure

Evaporation Rate

Water Solubility

Flash Point (°C)

EPA Code

DOT Number

RTECS OG5425000

Comments OXIDIZING
MATERIAL.

More information about the chemical is available in these categories:

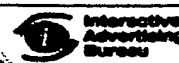
Chemical Online Order (1)

<http://chemfinder.cambridgesoft.com/result.asp?molid=1314-41-6>

8/23/2002



INTERACTIVE. It's the active ingredient.



click here to learn more

ChemFinder.Com
Database & Internet Searching

ChemStore.Com

ChemFinder.Com

ChemNews.Com

ChemClub.Com

CambridgeSoft.Com

**CALL
ME
NOW**

Enter a Chemical Name, CAS Number, Molecular Formula or Weight.

Use * for partial names (e.g. ben*).

Search here for free. For professional searching, use [ChemINDEX](#).

Search

Zinc oxide [1314-13-2]

Synonyms: C.I. pigment white 4; Flowers of zinc; Zinc oxide; ZINC OXIDE, FUME; Zinc white;

$\text{Zn}=\text{O}$	Tools	OpenChem
	BUY AT CHEMACX.COM	VIEW LINKS
	VIEW CHEMDRAW STRUCT	ADD COMPOUND
	VIEW CHEM3D MODEL	ADD CHANGE PROPERTY
	ADD LINK	
	CAS RN Lookup	
	THE MERCK INDEX	
	NCI DATABASE	

Formula	OZn	Molecular Weight	81.3894
CAS RN	1314-13-2	Melting Point (°C)	1975
ACX Number	X1002594-6	Boiling Point (°C)	
Density	5.606	Vapor Density	
Refractive Index		Vapor Pressure	
Evaporation Rate		Water Solubility	insoluble
Flash Point (°C)		EPA Code	
DOT Number	1436	RTECS	ZH4810000
Comments	white solid, Color Index = CI 77947		

More information about the chemical is available in these categories:

[Chemical Online Order](#)

[Health](#)

[Misc](#)

[MSDS](#)

[Pesticides/Herbicides](#)

[Physical Properties](#)

[Regulations](#)



MATERIAL PROPERTY DATA

Data on over 28,500 metals, plastics, ceramics, and composites.

HOME • SEARCH • TOOLS • SERVICES • HELP • SITE MAP • LOGIN

Unregistered User

REGISTER
NOW

Searches: Sequential | Material Type | Property | Composition | Trade Name | Manufacturer

SEARCH

MatWeb
presents**MatWeb**

MATERIAL PROPERTY DATA

Tungsten (IV) Oxide, WO₂

[Printer friendly version](#)

Subcategory: Ceramic; Oxide, Other

Key Words: WO2

Material Notes:

Blue monoclinic crystals

No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties

	Metric	English	Comments
Density	10.8 g/cc	0.39 lb/in ³	
Molecular Weight	215.84 g/mol	215.84 g/mol	

Electrical Properties

Magnetic Susceptibility	0.000057	0.000057	m ³ /mol
-------------------------	----------	----------	---------------------

Thermal Properties

Decomposition Temperature	1500 - 1700 °C	2730 - 3090 °F	
---------------------------	----------------	----------------	--

Descriptive Properties

Color	Blue
Crystal Structure	Monoclinic

[Printer friendly version](#)**References** for this datasheet.

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to Matweb's disclaimer and terms of use regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into Matweb.